

1/10

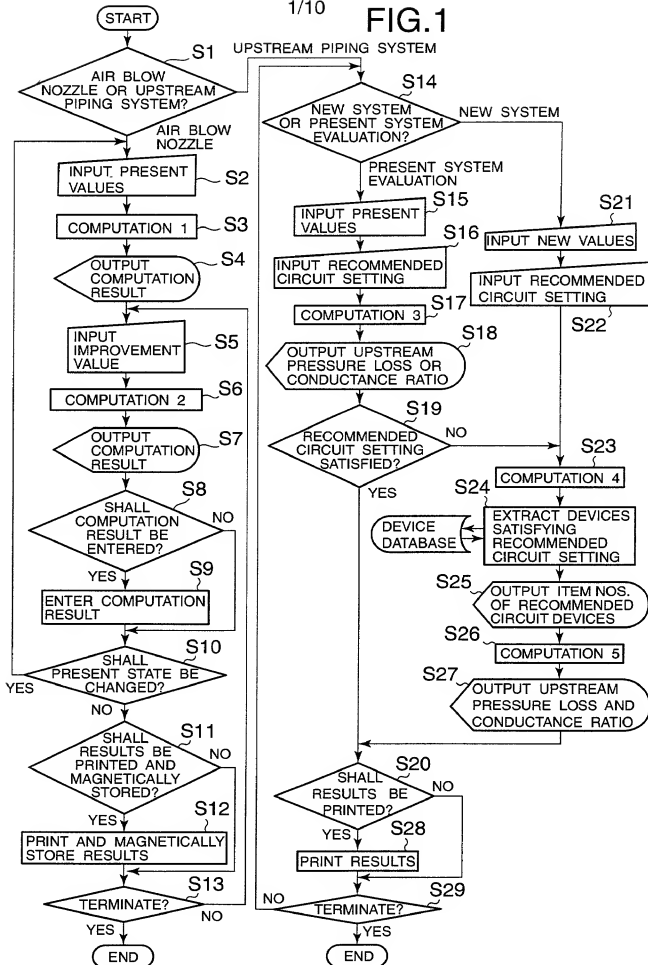
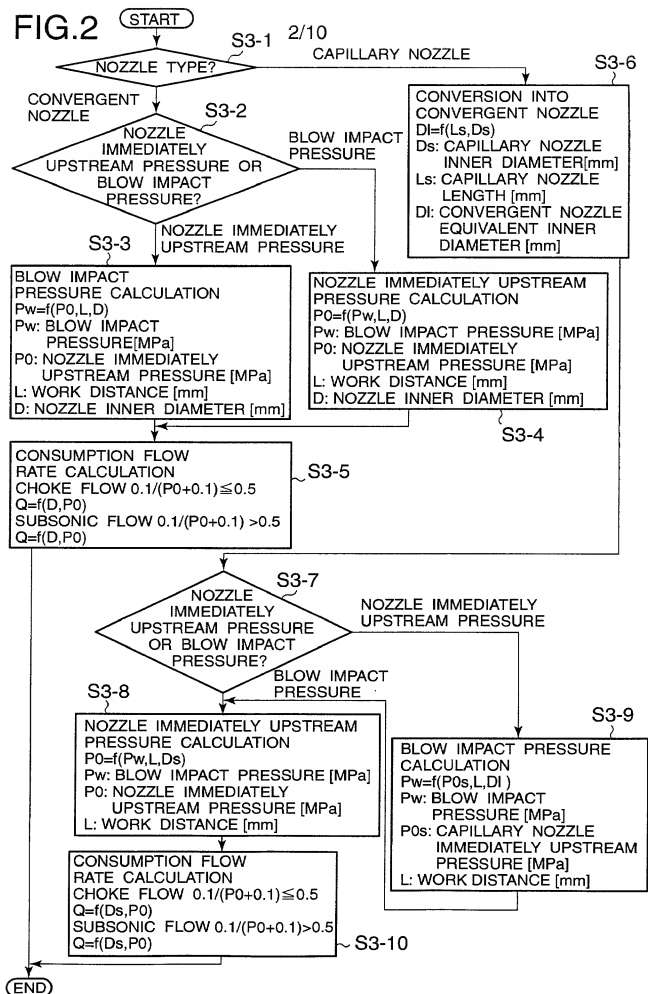
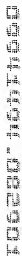


FIG.2





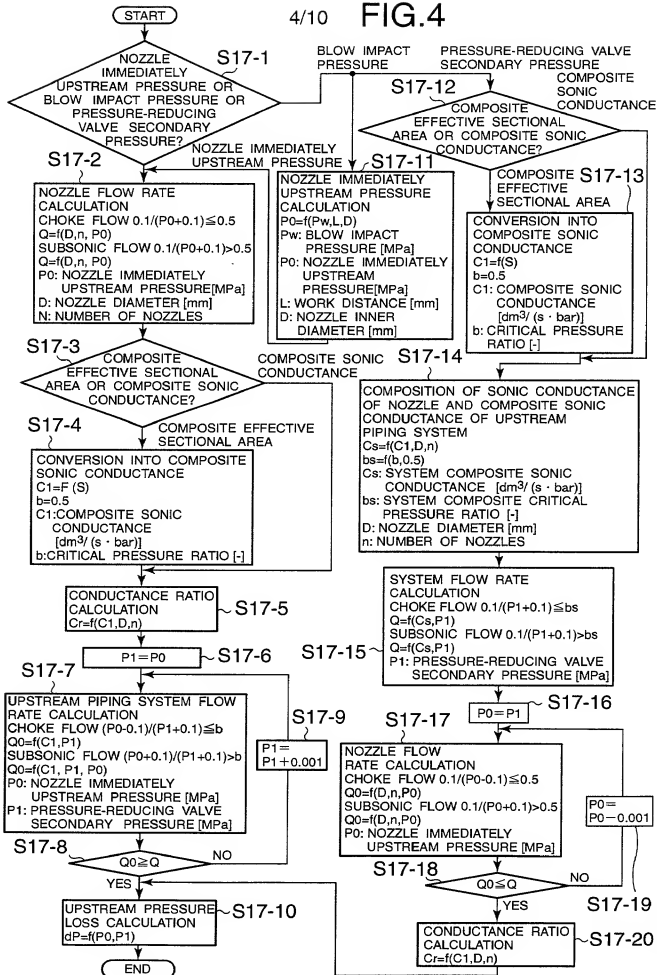


FIG.5

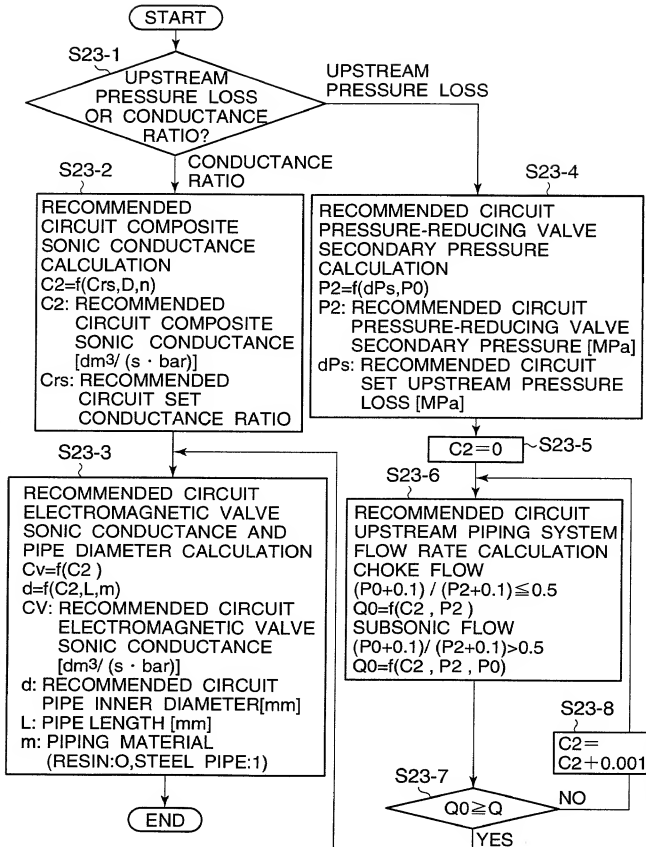


FIG.6

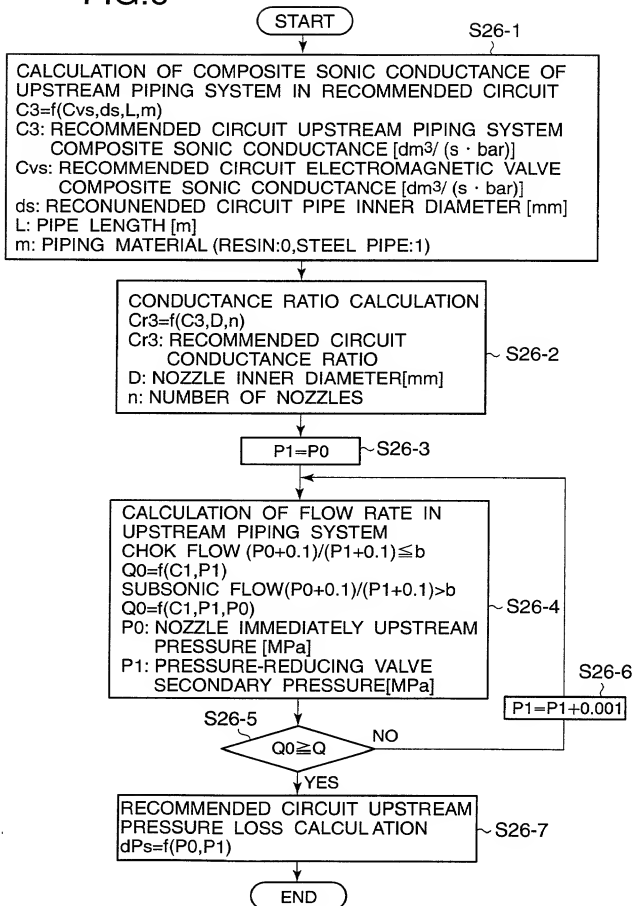


FIG.7

OPTIMIZATION OF AIR BLOW SYSTEM

OPTIMIZATION OF AIR BLOW NOZZLE IMPROVEMENT

IMPROVEMENT

C NOZZLE DIAMETER

• NOZZLE IMMEDIATELY
UPSTREAM PRESSURE

WORK DISTANCE

0.4 MPa

300 mm

	NOZZLE DIAMETER	NOZZLE UPSTREAM PRESSURE	IMMEDIATELY UPSTREAM PRESSURE	BLOW IMPACT PRESSURE	WORK DISTANCE	CONSUMPTION FLOW RATE
No	mm	MPa	MPa	MPa	mm	dm ³ /min(ANR)
IMPROVEMENT 2	0.86845	0.4	1.71E-04	300	31.987	



CALCULATE



ENTER

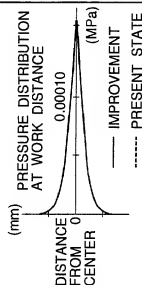
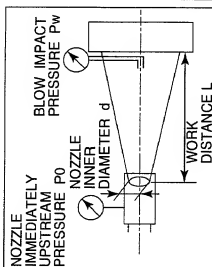
	NOZZLE DIAMETER	NOZZLE UPSTREAM PRESSURE	IMMEDIATELY UPSTREAM PRESSURE	BLOW IMPACT PRESSURE	WORK DISTANCE	CONSUMPTION FLOW RATE
	mm	MPa	MPa	MPa	mm	dm ³ /min(ANR)
PRESENT STATE	4	0.02	1.71E-04	300	121.39	
IMPROVEMENT1	1	0.30597	1.71E-04	300	34.435	
IMPROVEMENT2	0.86845	0.4	1.71E-04	300	31.987	

PRESENT STATE
CHANGE

DELETE



EDIT

SCREEN
SHORTCUT

INTERNATIONAL SYSTEM OF UNITS



SAVE



CALCULATE



CALCULATOR

INPUT
VALUE RESET

RETURN



MENU

FIG. 8

OPTIMIZATION OF AIR BLOW SYSTEM [PRESENT STATE INPUT]

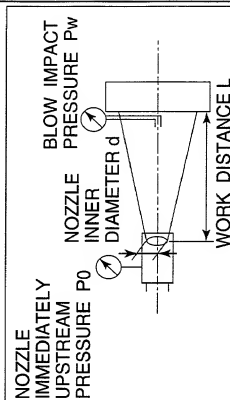
PRESENT STATE

NOZZLE TYPE CONVERGENT NOZZLE ▾NOZZLE INNER
DIAMETER(CONVERGENT)d 4 mm• NOZZLE IMMEDIATELY
UPSTREAM PRESSUREP0 0.02 MPa

C BLOW IMPACT PRESSURE

Pw

WORK DISTANCE

L 300 mm

CALCULATOR



DECIDE



CANCEL

INTERNATIONAL SYSTEM OF UNITS

FIG.10

OPTIMIZATION OF AIR BLOW SYSTEM		OPTIMIZATION OF UPSTREAM PIPING SYSTEM	
<input type="radio"/> PRESENT SYSTEM EVALUATION <input checked="" type="radio"/> NEW SYSTEM			
NOZZLE DIAMETER (CONVERGENT) <input type="text" value="2"/> mm NUMBER OF NOZZLES <input type="text" value="5"/>		AIR BLOW SYSTEM RECOMMENDED CIRCUIT UPSTREAM PIPING SYSTEM	
<input type="radio"/> NOZZLE IMMEDIATELY UPSTREAM PRESSURE <input type="text" value=""/> MPa <input checked="" type="radio"/> BLOW IMPACT PRESSURE <input type="text" value="0.001"/> MPa WORK DISTANCE <input type="text" value="300"/> mm <input type="radio"/> PRESSURE-REDUCING VALVE <input type="text" value=""/> MPa <input type="radio"/> SECONDARY PRESSURE <input type="text" value=""/> MPa		PRESSURE-REDUCING TWO-PORT CONNECTION VALVE NOZZLE	
UPSTREAM PIPING SYSTEM <input checked="" type="radio"/> COMPOSITE SONIC CONDUCTANCE <input type="text" value=""/> dm ³ /(s·bar) <input type="radio"/> COMPOSITE EFFECTIVE SECTIONAL AREA <input type="text" value=""/> mm ² COMPOSITE VALUE INPUT <input type="radio"/> STEEL PIPE <input checked="" type="radio"/> RESIN CRITICAL PRESSURE RATIO <input type="text" value=""/> <input type="text" value="4"/> m PIPE LENGTH <input type="text" value=""/> m RECOMMENDED CIRCUIT SETTING <input type="radio"/> UPSTREAM PRESSURE LOSS <input type="text" value=""/> MPa OR LESS <input checked="" type="radio"/> CONDUCTANCE RATIO <input type="text" value="2:1"/> OR MORE <UPSTREAM: NOZZLE>		DEVICE NAME PRESSURE-REDUCING VALVE AR2000-[] H ELECTROMAGNETIC VALVE VP542-[] H-03A-[] PIPE T1613-[] H ITEM NOS. PRESENT STATE RECOMMENDED CIRCUIT UPSTREAM PRESSURE LOSS <input type="text" value=""/> 0.022 MPa CONDUCTANCE RATIO <input type="text" value=""/> :1 2.8779:1	
<input type="radio"/> SCREEN SHORTCUT		CALCULATE	CALCULATOR
PRINT		INPUT VALUE RESET	MENU
RETURN		RETURN	